



# Deploying and Billing for New Telecom Services

Astricon  
Sept 23, 2004

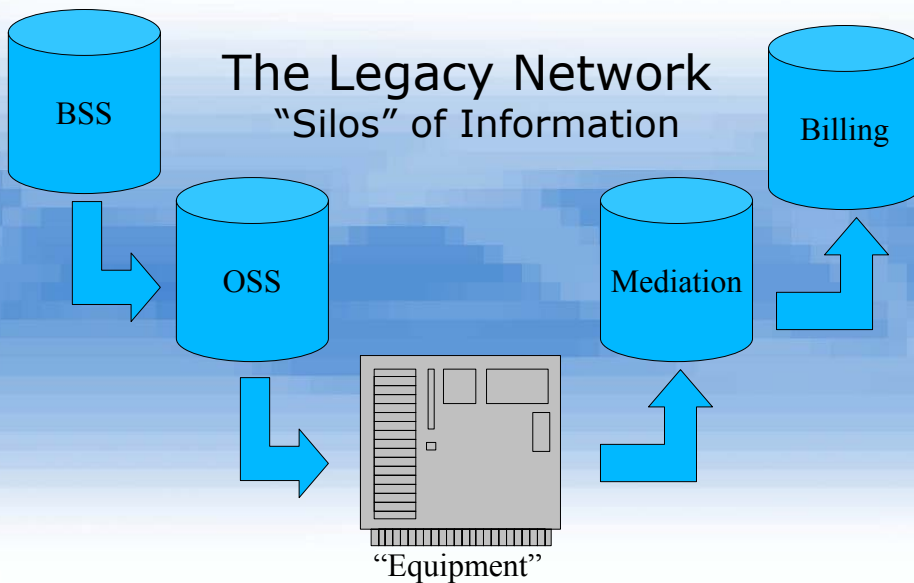
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## **Asterisk PROMISE**

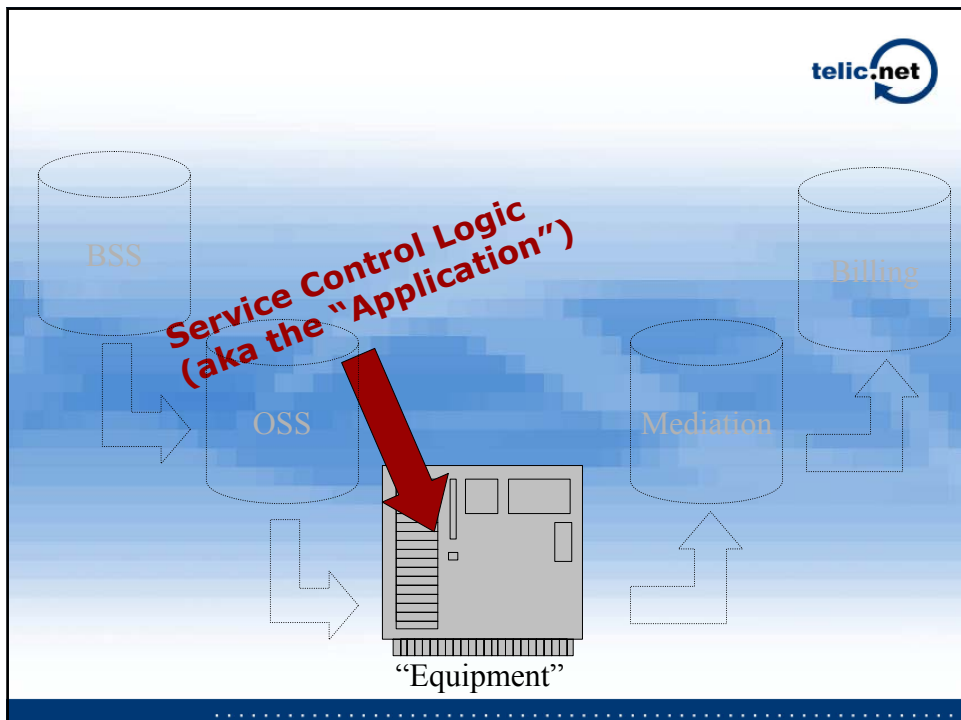
- 1. Asterisk telephony is all about APPLICATIONS**
- 2. The Asterisk appeal: openness and flexibility are designed to allow for easy application development and to support ANY business model**
- 3. Applications can "live" anywhere on the network. They are meant to be distributed.**
- 4. Applications can come from multiple service providers (Partners). Customers will mix and match to suit their wants.**

...as long as you can bill for it.



## STEPS INVOLVED IN LEGACY BILLING

1. Customer order is keyed into BSS resulting in Service Order (SO)
2. SO is processed by OSS to configure the underlying equipment (e.g. Class 5 switch or DSLAM)
3. Equipment records "events" - CDRs >EDRs >XDRs
4. XDRs are collected/groomed for billing in batches by mediation system
5. Billing system rates the events and generates a 'charge' that can be presented to the customer



# New Services Require Real-time Interaction between Apps and Business Intelligence.

## EXAMPLE



Customer: Bill Smith

1. VoIP over DSL with two IP Phones (one for teen daughter Jill)
2. Bill's basic monthly plan includes voicemail and unlimited LD. 'Non-basic' calls are charged separately on a monthly statement.
3. Jill's non-basic calls are pre-paid to control spending, including a subscribed feature that forwards calls to her PC (softphone) whenever she is "present" on IM and to her mobile-phone when she is "away".



## What makes this difficult?

1. Before a call can be processed, the system needs to identify the called party's billing profile.
2. Changes to Jill's 'status' will change the call logic and billing parameters. Forward to a softphone - free?  
Forward to a mobile phone - prepaid?
3. What started out as an unbillable event (inbound call) changes mid-session based on Jill's status. These changes must be effected at the proxy/softswitch in real-time.

## System must be able to process these events:

1. Verify the subscriber identity and account type (pre-paid, post-paid, roaming, transient)
2. Verify that the subscriber is entitled to use a particular service
3. Allow flexible per-service-based charging based on the service type and user profile
4. Authorize or deny service delivery based on user and/or network status
5. Onward service/session management /call control
6. Process payment, if required, before the next service/session is initiated.

# Additional Benefits

- Flow Through Provisioning
- Easily Add New Applications
- Easily Change Service Models

# Questions?

# The End

Applications are designed to interact from anywhere in the network

